

Translation

PATENT COOPERATION TREATY

PCT/DE2003/002412



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2002P12149WO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/DE2003/002412	International filing date (day/month/year) 17 July 2003 (17.07.2003)	Priority date (day/month/year) 31 July 2002 (31.07.2002)
International Patent Classification (IPC) or national classification and IPC H01R 13/115		
Applicant SIEMENS AKTIENGESELLSCHAFT		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 1 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 11 November 2003 (11.11.2003)	Date of completion of this report 31 August 2004 (31.08.2004)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE2003/002412

I. Basis of the report

1. With regard to the elements of the international application:*

☐ the international application as originally filed

☒ the description:

pages 1-8, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

☒ the claims:

pages 2-7, as originally filed
pages _____, as amended (together with any statement under Article 19
pages _____, filed with the demand
pages 1, filed with the letter of 18 May 2004 (18.05.2004)

☒ the drawings:

pages 1-3-3-3, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

☐ the sequence listing part of the description:

pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language _____ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).

☐ the language of publication of the international application (under Rule 48.3(b)).

☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/DE 03/02412

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-7	YES
	Claims		NO
Inventive step (IS)	Claims	1-7	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-7	YES
	Claims		NO

2. Citations and explanations

1 Reference is made to the following document:

D1: DE 100 05 297 A

2 Novelty and inventive step of independent claim 1

2.1 Document D1 is considered the prior art closest to the subject matter of claim 1. D1 discloses (the references in parentheses relate to said document):

- a method for producing a conductive contact tip
(1) for a detachable electrical plug-in connection, there being provided, firstly, a contact element having a bushing part (12) with longitudinal slits in sections and having ribs (26) distributed across its circumference, and a sleeve part (4) which can surround the bushing part (12) and cover its ribs (26), said sleeve part having two mutually opposite end faces (see figure 1).

2.2 The subject matter of claim 1 differs therefore from the known method in that claim 1 discloses a different sequence of method steps.

- 2.3 The problem addressed by the present invention can therefore be considered that of producing the elastic properties of the inwardly curved ribs precisely and with little waste.

The prior art contains no suggestion as to this solution.

- 2.5 The subject matter of the application is novel and is therefore considered to involve an inventive step (PCT Article 33(2) and (3)).

- 3 Claims 2-7 are dependent on claim 1 and therefore likewise meet the PCT novelty and inventive step requirements.

- 4 The subject matter of the present application relates to a method for producing a contact tip, which is clearly industrially applicable.

New patent claim

1. Method for producing a conductive contact part

(10) for a detachable electrical plug-in connection, where initially
5 a contact element (20) with sectionally lengthwise-slotted sleeve
part (23) which features ribs (26) arranged distributed around its
circumference, and a sleeve part (30) surrounding the bushing part
(23) and covering its ribs (26) with two opposing end faces (31, 32)
are provided, characterized in that the sleeve part (30) is then
10 arranged and positioned approximately coaxially to the bushing part
(23) so as to cover its ribs (26), at which point the positioned
sleeve part (30) is locked by one of its two ends (31, 32) to the
bushing part (23), so that subsequently the bushing part (23) is
twisted elastically around the central axis (13) such that the ribs
15 (26) bend inwards in the shape of an arc towards the central axis
(13) and that finally the sleeve part (30) is locked with the other
of the two ends (32, 31) to the bushing part (23) held twisted
against the elastic recovery force of the ribs (26).

(Claims 2 to 7 remain unchanged)